

AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

1. (Canceled).
2. (Canceled).
3. (Currently Amended) The encapsulation apparatus of claim [[2]] 11, wherein the frustoconical surface forms a cone angle about 50 degrees and there are four evenly spaced grooves machined into the frustoconical surface.
4. (Canceled).
5. (Currently Amended) The encapsulation apparatus of claim [[2]] 11, wherein the plurality of first grooves are evenly spaced about the frustoconical surface.

6. (Currently Amended) The encapsulation apparatus of claim [[2]] 11, wherein the motor rotates the center cup at a speed of between 2000 rpm and 8000 rpm.
7. (Currently Amended) The encapsulation apparatus of claim [[1]] 11, wherein the apparatus that introduces the fluid stream of material comprises a syringe operated to provide a continuous fluid stream of material at a fixed flow rate.
8. (Original) The encapsulation apparatus of claim 7, wherein the fixed flow rate is between 0.5ml/minute and 5ml/minute.
9. (Canceled).
10. (Original) A spinning disk encapsulation apparatus for encapsulating biological material comprising:
 - a center cup;
 - an outer collection chamber surrounding at least a portion of the center cup;
 - means for rotating at least the center cup;
 - means for introducing a fluid stream of material comprising the biological material and a polymeric coating solution into the center cup; and
 - means for forming the fluid stream of material into one or more singulated lines as the center cup is rotated.

Please add the following new claim.

11. (New) A spinning disk encapsulation apparatus for encapsulating biological material comprising:

a center cup including an opening at an upper portion, a reservoir at a lower portion, and a first inner wall and a second inner wall defined between the opening and the reservoir, the first inner wall having a frustoconical surface tapered outward, the second inner wall defined between the frustoconical surface of the first inner wall and the reservoir, a plurality of first grooves in at least a portion of the first inner wall to define generally continuous channels from a lower portion to an upper portion of the first inner wall, and a plurality of second grooves in the second inner wall to define continuous channels to define generally continuous channels from a lower portion to an upper portion of the second inner wall, at least one of the second grooves having being aligned with a corresponding at least one of the first grooves at an interface between the first inner wall and the second inner wall;

an outer collection chamber surrounding at least a portion of the center cup;

a motor that rotates at least the center cup; and

apparatus that introduces a fluid stream of material comprising the biological material and a polymeric coating solution into the reservoir,

such that as the center cup is rotated the fluid stream of material travels up from the reservoir along the second grooves and into the first grooves and exits the upper portion of the center cup as one or more singulated lines of materials.